



Formulation

No. 3011

Daily Moisturizer (SPF 15)

DESCRIPTION

This formulation features **Cola®Fax CPE**, **Poly Suga®Mulse D6**, and **Cola®Moist 200** for a broad spectrum, mineral-based SPF 15*. This non-whitening lotion is silky and dry to the touch. Light enough for daily use.

FORMULATION

Order	INCI Name	Trade Name	%
A	Water	Water	qs to 100.00
A	Xanthan Gum	Keltrol® CG LAX-T ¹	0.60
A	Cetyl Phosphate	Cola®Fax CPE	1.00
A	Potassium Hydroxide	Potassium Hydroxide, 45%	0.60
A	Sorbitan Oleate Decylglucoside Crosspolymer	Poly Suga®Mulse D6	4.00
A	Hydroxypropyl Bis-Hydroxyethylmonium Chloride	Cola®Moist 200	2.00
B	Zinc Oxide and Titanium dioxide and Caprylic/capric triglyceride and Polyhydroxystearic acid and Alumina and Stearic acid	Xperse® 301 ²	15.00
B	Cetyl Alcohol	Lanette® 16 ³	4.00
B	Isopropyl Myristate	Isopropyl Myristate ³	5.00
B	Coco-Caprylate	Cetiol® C5 ³	3.00
B	Myristyl Myristate	Cetiol® MM ³	2.00
C	Phenoxyethanol and Ethylhexylglycerin	Euxyl® PE 9010 ⁴	0.50
C	Fragrance	WS Calming Fragrance ⁵	0.20

¹CP Kelco, ²EverZinc, ³BASF, ⁴Schülke & Mayr, ⁵Orchidia

*Estimated SPF

PROCEDURE

1. Disperse xanthan gum in water with moderate mixing. Mix until completely hydrated.
2. Heat to 65 – 70°C and add remaining phase A ingredients.
3. In a separate vessel, combine phase B ingredients and heat to 60 – 65°C.
4. Once both phases are at temperature, slowly add phase B to phase A.
5. Homogenize and cool to 45°C.
6. Add remaining ingredients.

TYPICAL PROPERTIES

Appearance Opaque Cream
pH 6.0 – 7.0
Viscosity (T-E, 6rpm) 45,000 cP

ACTIVE INGREDIENTS

Zinc Oxide 4.50%
Titanium Dioxide 3.45%

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